



## Cogeneration System

In 2018, Gaylord National Resort installed and implemented a Cogeneration System (COGEN) that uses natural gas to generate electricity and hot water. This project has reduced gas and electricity costs by \$493,000 and reduced greenhouse gas emissions at Gaylord National by 13 percent. The COGEN system used 3 TCG2020-V20 (2MW) engines to generate both electricity and hot water for the hotel. Monthly, this system produces more than three million kilowatt hours and nearly 80,000 THERMS and runs with optimal efficiency to provide the resort with more than 85% of the energy needed to run the resort.

### Important Facts at a Glance

The resort has lowered its carbon footprint by 32,800 tons annually.

Since implementation, Gaylord National has reduced its pull on the local electricity grid by 59%.

Gaylord National saves about \$1 million annually in electricity costs because of the cogeneration system.

This installation functions as a microgrid and is the largest of its kind in Maryland.

The energy produced each month is enough to power 140,000 light bulbs or 5,834 air fryers.

*Gaylord Hotels supports Marriott International's aspiration to be the global leader in demonstrating how hotel management can be a positive force for the environment and create economic opportunities. Gaylord National Resort & Convention Center continues to take steps towards a green environment for our planet.*